

Web Programming Languages (CS 6314.001) Final project Online Toy Store

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Name for the Website: Toy Store

Project Description:

We have designed a web application which enables users to buy toys online.

Main functionalities of the website:

Signup: Signup asks for user's first name, last name, username, email, phone number and password. It will check if the all the required details (username, first name, password, email address), if the username is already existing and also checks the strength of the password and if everything is as per the requirements then it will create a new user in the database with the credentials given by the user. The password is hashed and stored in the database so as to ensure security.

Login: After the user has signed up, he has to login using the username and password which he provided during the signup to access his profile.

Listing the available toys: All the available toys are displayed once the user has logged in. A user can search for a product using a search keyword and also can filter the search based on the categories available (like board games, Toy cars etc).

Paging Functionality: Paging functionality is implemented in the search page. 4 products are shown per page.

Adding a toy into cart: The user can add toys to the cart as well as update the quantity of a toy in the cart. The user can also remove a toy from the cart. The total price of the items in the cart is also displayed.

Placing an Order: Once the user decides to place an order of the items in the cart, he can click on the checkout button. The order will be placed successfully.

History of orders: A user can also view previous orders.

Admin: The admin has the same interface as the user with some additional functionalities. The main controls of the inventory are monitored by the admin.

Add item: Admin can add a new toy. While adding a toy, admin will also be able to upload an image for the toy.

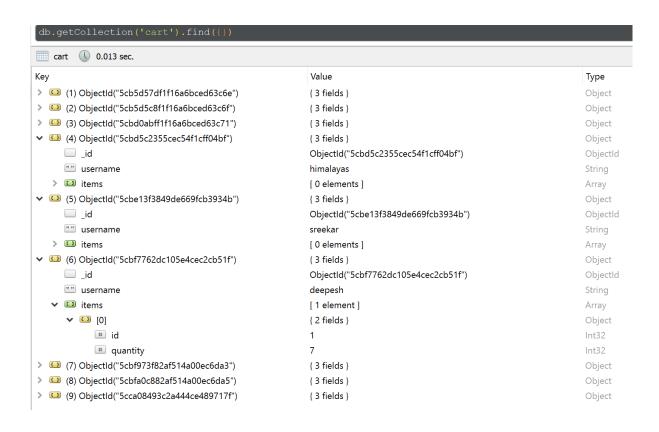
Update item: Admin can update details of the toys. Admin will also be able to change picture of a toy.

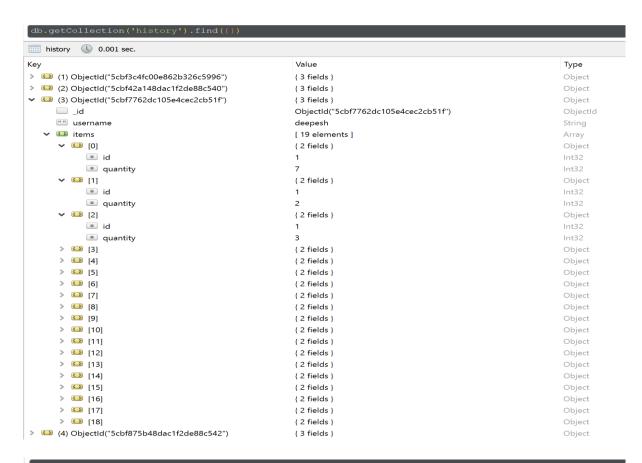
Delete item: Admin can delete a toy. The delete implemented here is soft delete. After an admin deletes a toy, it will be removed automatically if that toy is included in any of the user's cart.

Database Design: The main collections in the database includes:

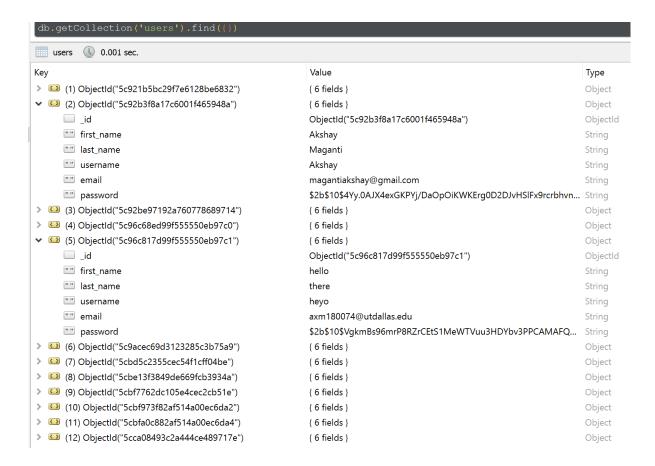
- Admin
- Users
- Products
- Cart
- History







db.getCollection('products').find({}) products 0.001 sec. Key Value Туре > (1) ObjectId("5cbf3436c00e862b326bf636") { 8 fields } Object > (2) ObjectId("5cbf3436c00e862b326bf637") { 8 fields } Object ▼ (3) ObjectId("5cbf3436c00e862b326bf638") { 8 fields } Object ___ _id ObjectId("5cbf3436c00e862b326bf638") ObjectId # id Int32 "" title Thomas Toy Train String img img img/product-4.png String "" price String "" company Target String "" category toy car String inventory 83 Int32 (4) ObjectId("5cbf3436c00e862b326bf639") { 8 fields } Object ___ _id ObjectId("5cbf3436c00e862b326bf639") ObjectId # id Int32 "" title Buzz-lightyear: Toy Story String "" img img/product-6.png String "" price 12 String "" company ScreenRant String "" category String toy "" inventory String > (5) ObjectId("5cbf3436c00e862b326bf63a") { 8 fields } Object > (6) ObjectId("5cbf3436c00e862b326bf63b") { 8 fields } Object > (7) ObjectId("5cc2426cbe96d5583c3931f3") { 8 fields } Object > (8) ObjectId("5cc24d573c8ad23b786f8cad") { 8 fields } Object > (9) ObjectId("5cca3db33c2a444ce4897180") { 8 fields } Object > (10) ObjectId("5cca4df33c2a444ce4897181") { 8 fields } Object



Languages/frameworks used:

HTML

CSS

Bootstrap

ReactJS

NodeJS

ExpressJS

MongoDB

Screenshots of main functionalities:

• Home Page



• <u>Cart</u>



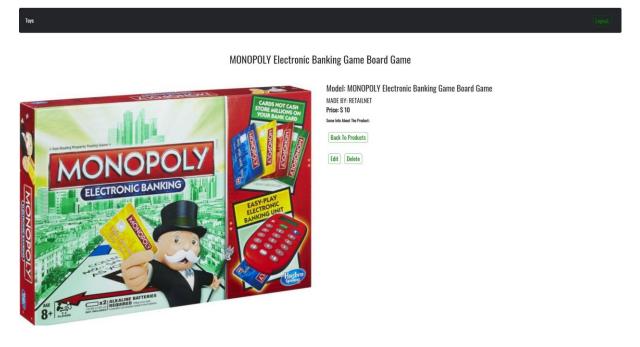
• <u>History</u>



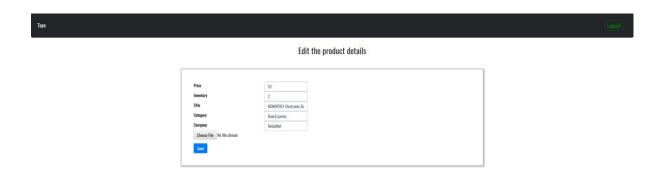
• Admin (add a product form)



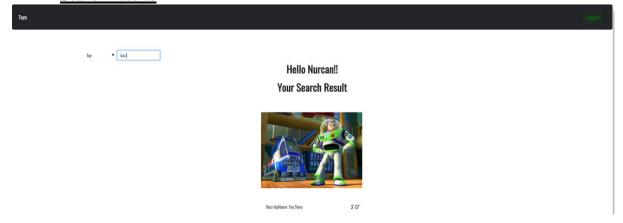
• Product details page



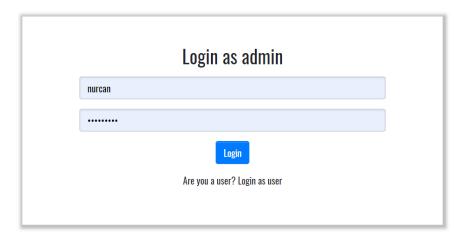
• Edit product page



• Search results



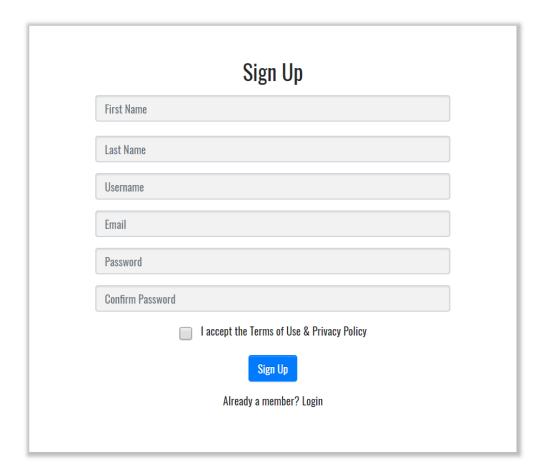
• Admin Login



• <u>User Login</u>



• Signup form



Work Division:

| Harichandana Epuri | Login, Signup, Add, update, delete functionalities for admin |
|--------------------|--|
| Kavya Jampani | Product listing, Search, Filter, Pagination, Product detail page |
| Akshay Maganti | Admin functionalities, Cart functionality, Order history |